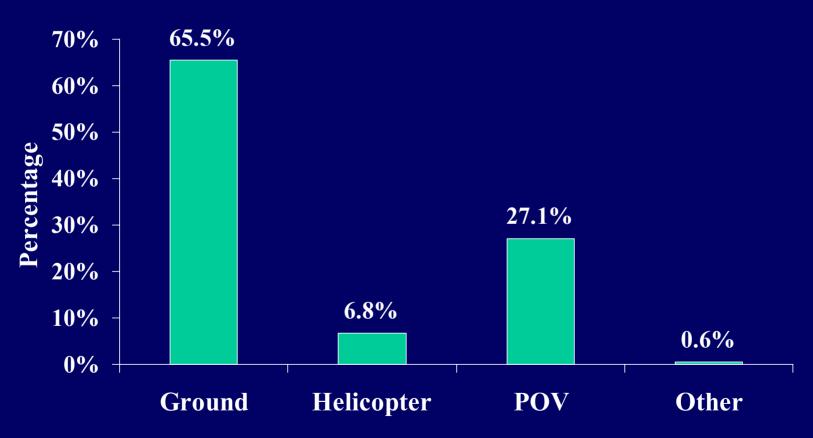
Patient Flow through the System

EMS and Trauma Steering Committee
March, 2003

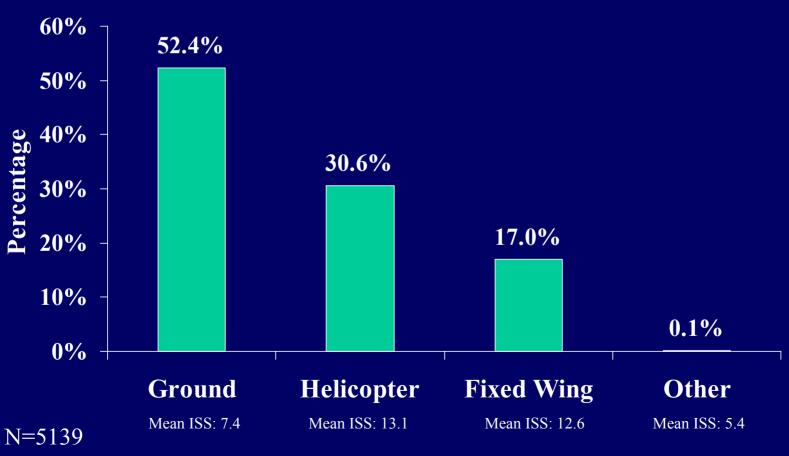
Transported from Scene

(July 1, 2000 – June 30, 2002, DOH criteria, excluding transfers in)



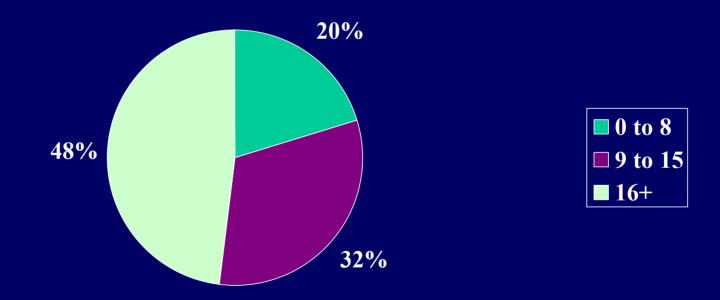
N=20,852

How Transported from Referring Hospital



Air Transports from Scene: ISS

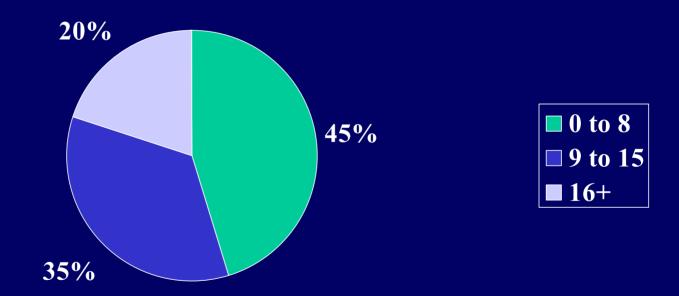
(July 1, 2000 – June 30, 2002, DOH criteria, no transfers)



N=1,412

Ground Transports from Scene: ISS

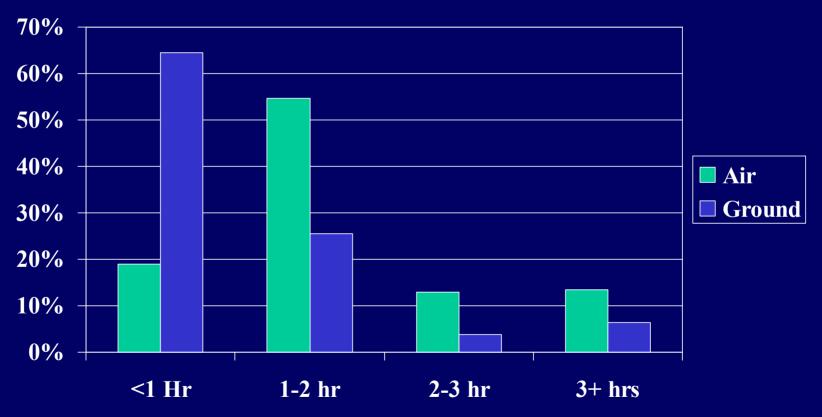
(July 1, 2000 – June 30, 2002, DOH criteria, no transfers)



N=13,650

Time from Injury to 1st Hospital

(July 1, 2000 – June 30, 2002, DOH criteria, no transfers)



Missing data: 46% for ground, 67% for air

Missing Time from Injury to 1st Hospital

• Air: 14.5% died for patients with missing times compared to 11.8% for patients with times (Not significant - Two sample t test with unequal variance, p=.15)

• Ground: 7.6% died for patients with missing times compared to 5.3% for patients with times (Statistical significant, p<.0001)

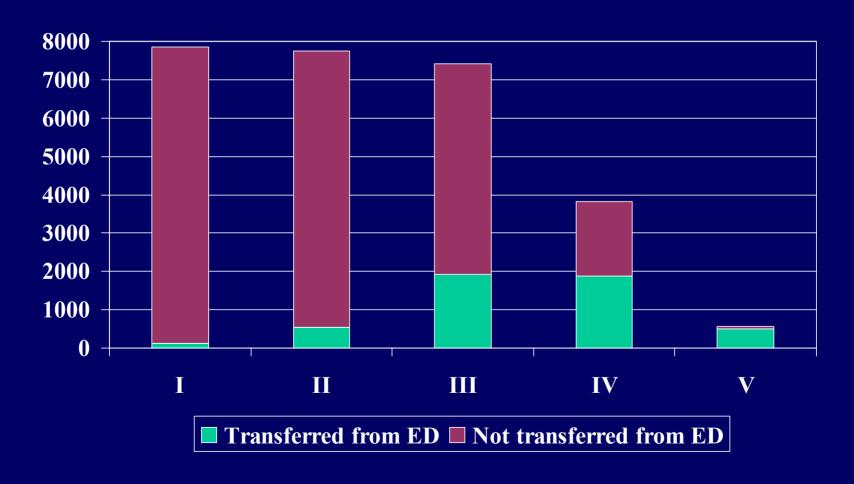
Air Transport from Scene: Outcomes

- 192 patients died (13.6%) (4 DOA, 50 ED, 16 OR, 122 Floor)
- 434 (30.7%) to OR from ED
- 507 (35.9%) to ICU
- 48 (3.4%) transfer from ED to another ACF
- 36 (2.5%) transferred after admission
- Discharges home from ED will not meet inclusion criteria.

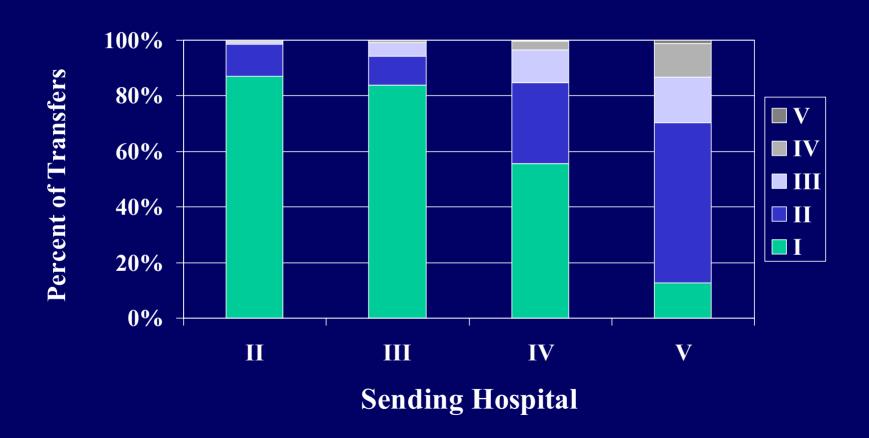
Ground Transport from Scene: Outcomes

- N=13640
- 875 patients died (6.4%)
- 3040 (22.3%) transferred from ED to another ACF
- Review of appropriateness of transport mode for long times to first hospital

Hospital Transfers from ED



Transfers from ED to What Level?



Transfers to lower level

- From level II: N=7, Mean ISS 5.3
- From Level III: N=13, Mean ISS 5.2
- From Level IV: N=4, Mean ISS 9.8

Transfers to Non-Designated Facilities or Unspecified Facilities

- From level II: N=35, Mean ISS 7.3
- From Level III: N=152, Mean ISS 6.1
- From Level IV: N=187, Mean ISS 5.7

The Role of Transfers?

(July 1, 2000 – June 30, 2002, DOH criteria)

• For major trauma (ISS>=16): 15% mortality in patients transferred in, compared to 24.4% in direct-from-scene patients.

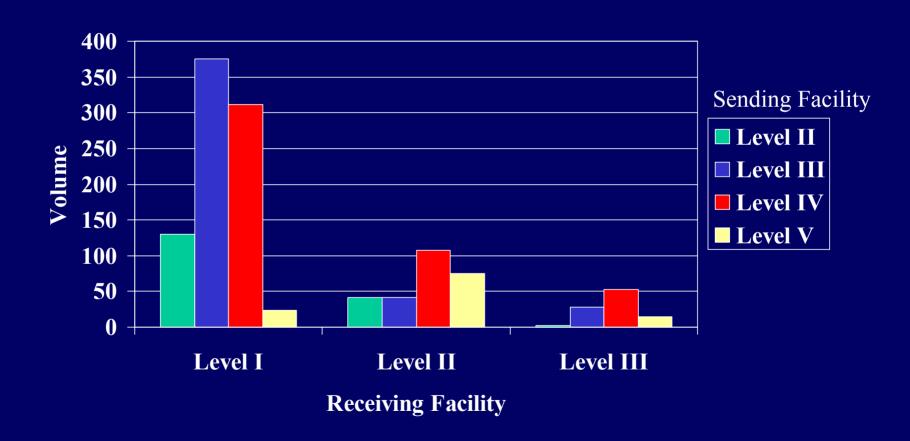
(Two-sample t test with unequal variance, p<.0005)

• Moderate trauma (ISS 9-15): 1.9% vs. 3.9% (p<.0005)

• Minor trauma (ISS<9): 1.0% vs.1.6% (p=.0157)

ISS<9 Transfers from ED

Year 2001, State Criteria



Transfers after Admission

(July 1, 2000 – June 30, 2002, DOH criteria)

- 586 patients were admitted and subsequently transferred (27.2% with ISS>=16)
- 38% had surgery prior to transfer.
- 20.6% had ICU stays without surgery.
- 27.8% had traumatic brain injury.
- Why were they transferred?
- How should we evaluate?

Medicaid and Transfers

(July 1, 2000 – June 30, 2002, DOH criteria)

